

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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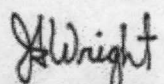
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DATA MATRIX

Date December 3, 2018	EPA Reg No./File Symbol 2749-560	Page 1 of 28
Applicant's/Registrant's Name & Address Aceto Agricultural Chemicals Corp. 4 Tri Harbor Court Port Washington, NY 11050	Product Bifenthrin Technical MUP	

Ingredient: Bifenthrin (CAS No. 82657-04-3)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
PRODUCT SPECIFIC DATA REQUIREMENTS					
830.1550	Product identity and composition	47902601 48167801 50484801 50484803 50484805 50737201	Aceto Agricultural Chemicals Corp. Aceto Agricultural Chemicals Corp. Aceto Agricultural Chemicals Corp. Aceto Agricultural Chemicals Corp. Aceto Agricultural Chemicals Corp. Aceto Agricultural Chemicals Corp.	OWN OWN OWN OWN OWN OWN	
830.1600	Description of Materials Used to Produce the Product	47902601 48167801 50484801 50484803 50484805 50737201	Aceto Agricultural Chemicals Corp. Aceto Agricultural Chemicals Corp. Aceto Agricultural Chemicals Corp. Aceto Agricultural Chemicals Corp. Aceto Agricultural Chemicals Corp. Aceto Agricultural Chemicals Corp.	OWN OWN OWN OWN OWN OWN	
830.1620	Description of the Production Process	47902601 48167801 50484801 50484803 50484805 50737201	Aceto Agricultural Chemicals Corp. Aceto Agricultural Chemicals Corp. Aceto Agricultural Chemicals Corp. Aceto Agricultural Chemicals Corp. Aceto Agricultural Chemicals Corp. Aceto Agricultural Chemicals Corp.	OWN OWN OWN OWN OWN OWN	
830.1650	Description of the Formulation Process				Not required
830.1670	Discussion of Formation of Impurities	47902601	Aceto Agricultural Chemicals Corp.	OWN	

Signature 	Name and Title John F. Wright, Authorized Representative	Date 2/13/19
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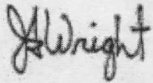
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Applicant's/Registrant's Name & Address Aceto Agricultural Chemicals Corp. 4 Tri Harbor Court Port Washington, NY 11050		Product Bifenthrin Technical MUP			
Ingredient: Bifenthrin (CAS No. 82657-04-3)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
		48167801	Aceto Agricultural Chemicals Corp.	OWN	
		50484801	Aceto Agricultural Chemicals Corp	OWN	
		50484803	Aceto Agricultural Chemicals Corp	OWN	
		50484805	Aceto Agricultural Chemicals Corp	OWN	
		50737201	Aceto Agricultural Chemicals Corp	OWN	
830.1700	Preliminary Analysis	47902601	Aceto Agricultural Chemicals Corp.	OWN	
		48167801	Aceto Agricultural Chemicals Corp.	OWN	
		50484802	Aceto Agricultural Chemicals Corp	OWN	
		50484804	Aceto Agricultural Chemicals Corp	OWN	
		50484806	Aceto Agricultural Chemicals Corp	OWN	
		50737202	Aceto Agricultural Chemicals Corp	OWN	
830.1750	Certified Limits	47902601	Aceto Agricultural Chemicals Corp.	OWN	
		48167801	Aceto Agricultural Chemicals Corp.	OWN	
		50484801	Aceto Agricultural Chemicals Corp	OWN	
		50484803	Aceto Agricultural Chemicals Corp	OWN	
		50484805	Aceto Agricultural Chemicals Corp	OWN	
		50737201	Aceto Agricultural Chemicals Corp	OWN	
830.1800	Enforcement Analytical Method	47902601	Aceto Agricultural Chemicals Corp.	OWN	
		48167801	Aceto Agricultural Chemicals Corp.	OWN	
		50484802	Aceto Agricultural Chemicals Corp	OWN	
		50484804	Aceto Agricultural Chemicals Corp	OWN	
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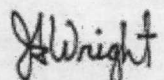
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Ingredient: Bifenthrin (CAS No. 82657-04-3)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
		50484806	Aceto Agricultural Chemicals Corp	OWN	
		50737202	Aceto Agricultural Chemicals Corp	OWN	
830.6302	Color	47902603	Aceto Agricultural Chemicals Corp.	OWN	
		48167803	Aceto Agricultural Chemicals Corp.	OWN	
		50484809	Aceto Agricultural Chemicals Corp.	OWN	
		50737203	Aceto Agricultural Chemicals Corp	OWN	
830.6303	Physical State	47902603	Aceto Agricultural Chemicals Corp.	OWN	
		48167803	Aceto Agricultural Chemicals Corp.	OWN	
		50484809	Aceto Agricultural Chemicals Corp.	OWN	
		50737203	Aceto Agricultural Chemicals Corp.	OWN	
830.6304	Odor	47902603	Aceto Agricultural Chemicals Corp.	OWN	
		48167803	Aceto Agricultural Chemicals Corp.	OWN	
		50484809	Aceto Agricultural Chemicals Corp.	OWN	
		50737203	Aceto Agricultural Chemicals Corp.	OWN	
830.6313	Stability to Normal and Elevated Temperatures, Metals and Metal Ions	47902603	Aceto Agricultural Chemicals Corp.	OWN	
		48167803	Aceto Agricultural Chemicals Corp.	OWN	
		50484809	Aceto Agricultural Chemicals Corp.	OWN	
830.6314	Oxidation/Reduction: Chemical Incompatibility	47902603	Aceto Agricultural Chemicals Corp.	OWN	
		48167803	Aceto Agricultural Chemicals Corp.	OWN	
		50484809	Aceto Agricultural Chemicals Corp.	OWN	
		50737203	Aceto Agricultural Chemicals Corp	OWN	

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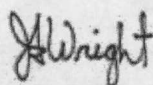
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Ingredient: Bifenthrin (CAS No. 82657-04-3)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.6315	Flammability	47902603	Aceto Agricultural Chemicals Corp.	OWN	
		48167803	Aceto Agricultural Chemicals Corp.	OWN	
		50484809	Aceto Agricultural Chemicals Corp.	OWN	
		50737203	Aceto Agricultural Chemicals Corp.	OWN	
830.6316	Explosibility	47902603	Aceto Agricultural Chemicals Corp.	OWN	
		48167803	Aceto Agricultural Chemicals Corp.	OWN	
		50484809	Aceto Agricultural Chemicals Corp.	OWN	
		50737203	Aceto Agricultural Chemicals Corp.	OWN	
830.6317	Storage Stability	55033501	Aceto Agricultural Chemicals Corp.	OWN	
830.6319	Miscibility				Not required
830.6320	Corrosion Characteristics	55033501	Aceto Agricultural Chemicals Corp.	OWN	
830.6321	Dielectric Breakdown Voltage				Not required
830.7000	pH	47902603	Aceto Agricultural Chemicals Corp.	OWN	
		48167803	Aceto Agricultural Chemicals Corp.	OWN	
		50484809	Aceto Agricultural Chemicals Corp.	OWN	
		50737203	Aceto Agricultural Chemicals Corp.	OWN	
830.7050	UV/Visible Absorption	50541101	Aceto Agricultural Chemicals Corp.	OWN	
830.7100	Viscosity				Not required
830.7200	Melting Point/Melting Range	47902603	Aceto Agricultural Chemicals Corp.	OWN	
		48167803	Aceto Agricultural Chemicals Corp.	OWN	
		50484809	Aceto Agricultural Chemicals Corp.	OWN	

Signature



Name and Title

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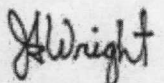
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Ingredient: Bifenthrin (CAS No. 82657-04-3)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
		50737203			
830.7220	Boiling Point/Boiling Range				Not required
830.7300	Density/Relative Density/Bulk Density	47902603 48167803 50484809 50737203	Aceto Agricultural Chemicals Corp. Aceto Agricultural Chemicals Corp. Aceto Agricultural Chemicals Corp.	OWN OWN OWN	
830.7370	Dissociation Constants in Water	47902603 48167803 50484809	Aceto Agricultural Chemicals Corp. Aceto Agricultural Chemicals Corp. Aceto Agricultural Chemicals Corp.	OWN OWN OWN	
830.7520	Particle size, fiber length, and diameter distribution				Not required
830.7550	Partition Coefficient (n-octanol/water), Shake Flask Method	50484810			See 830.7570
830.7560	Partition Coefficient (n-octanol/water), Generator Method				See 830.7570
830.7570	Partition Coefficient (n-octanol/water), Estimation by Liquid Chromatography	50484810	Aceto Agricultural Chemicals Corp.	OWN	
830.7840	Water Solubility: Column Elution Method, Shake Flask Method	50484811	Aceto Agricultural Chemicals Corp.	OWN	
830.7860	Water Solubility: Generator Column Method				See 830.7840
830.7950	Vapor Pressure	50484812	Aceto Agricultural Chemicals Corp.	OWN	
870.1100	Acute oral toxicity	47902604	Aceto Agricultural Chemicals Corp.	OWN	
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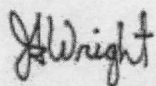
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Ingredient: Bifenthrin (CAS No. 82657-04-3)

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870.1200	Acute dermal toxicity	47902605	Aceto Agricultural Chemicals Corp.	OWN	
870.1300	Acute inhalation toxicity	47902606	Aceto Agricultural Chemicals Corp.	OWN	
870.2400	Eye irritation	47902607	Aceto Agricultural Chemicals Corp.	OWN	
870.2500	Skin irritation	47902608	Aceto Agricultural Chemicals Corp.	OWN	
870.2600	Skin sensitization	47902609	Aceto Agricultural Chemicals Corp.	OWN	
GENERIC DATA REQUIREMENTS					
850.2100	Acute Avian Oral Toxicity	00132532 (AC 251727) 00132534 (AC 251727) 49163801	Bifenthrin Task Force	OLD OLD OWN	See endnote ¹
850.2200	Acute Avian Dietary Toxicity	00132533 (AC 251727) 00132535 (AC 251727)		OLD OLD	See endnote ²
850.2400	Wild Mammal Toxicity				Not required

Signature



Name and Title

John F. Wright, Authorized Representative

Date

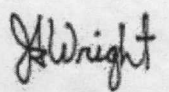
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Ingredient: Bifenthrin (CAS No. 82657-04-3)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
850.2300	Avian Reproductive Toxicity	00163097 (AC 264644) 00163098 (AC 264644) 00163099 (AC 264645) 00163100 (AC 264645)		OLD OLD OLD OLD	See endnote ³
850.2500	Simulated or Actual Field Testing				Not required
850.1075	Freshwater Fish Toxicity	00163156 (AC 251727) 00132536 (AC 251727)		OLD OLD	See endnote ⁴
850.1010	Freshwater Invertebrate Toxicity	00132537 41156501		OLD OLD	See endnote ⁵
850.1025, 850.1035, 850.1045, 850.1055, 850.1075	Acute Toxicity Estuarine and Marine Organisms	00163101 (AC 264646) 00163102 00163103 40383501 49060102	Bifenthrin Task Force	OLD OLD OLD OWN	See endnote ⁶

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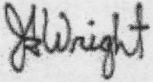
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Ingredient: Bifenthrin (CAS No. 82657-04-3)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
850.1300	Aquatic Invertebrate Life Cycle (Freshwater)	41156501		OLD	See endnote ⁷
850.1350	Aquatic Invertebrate Life Cycle (Saltwater)	49412102	Bifenthrin Task Force	OWN	See endnote ⁸
850.1400	Fish Early Life Stage (Freshwater)	49412101	Bifenthrin Task Force	OWN	See endnote ⁹
850.1400	Fish Early Life Stage (Saltwater)	49412101	Bifenthrin Task Force	OWN	See endnote ⁹
850.1500	Life Cycle Fish	49412101	Bifenthrin Task Force	OWN	See endnote ⁹
850.1710, 850.1730, 850.1850	Aquatic Organisms Bioavailability, Biomagnification, Toxicity	00163094 00163095 42529902 49008201 49008202	U.S. EPA U.S. EPA	OLD OLD OLD PL PL	See endnote ¹⁰
850.1950	Simulated or Actual Field Testing for Aquatic Organisms				Not required
SS-1072	Chronic Sediment <i>Leptocheirus plumulosus</i>	49692801	Bifenthrin Task Force	OWN	
SS-1066	Chronic Sediment <i>Hyaella azteca</i>	49277501	Bifenthrin Task Force	OWN	See endnote ¹¹
SS-1069	Chronic Sediment <i>Chironomus dilutus</i>	49277502	Bifenthrin Task Force	OWN	See endnote ¹²
850.3020	Honey Bee Acute Contact Toxicity	00132538		OLD	See endnote ¹³
850.3030	Honeybee Toxicity of Residues on Foliage	00163104		OLD	See endnote ¹⁴
850.3040	Field Testing for Pollinators				Not required ¹⁵
870.6100	Delayed Neurotoxicity (Acute) – Hen				Not required
870.6200	Acute Neurotoxicity – Rat	44862102		OLD	See endnote ¹⁶

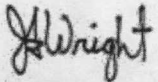
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Ingredient: Bifenthrin (CAS No. 82657-04-3)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.3100	90-Day Oral: Rodent	00141199		OLD	See endnote ¹⁷
870.3150	90-Day Oral: Non-Rodent	00141200		OLD	See endnote ¹⁸
870.3200	21/28-Day Dermal Toxicity	00141198 45280501		OLD OLD	See endnote ¹⁹
870.3250	90-Day Dermal Toxicity	48807401	Bifenthrin Task Force	OWN	Waived
870.3465	90-Day Inhalation Toxicity	49153402	FMC Corporation	PER	Waived
870.6100	28-Day Delayed Neurotoxicity Hen				Not required
870.6200	90-Day Neurotoxicity	44862103		OLD	See endnote ¹⁶
870.4100	Chronic Oral Rodent	00157226		OLD	See endnote ²⁰
870.4200	Carcinogenicity	00157226 00157227		OLD OLD	See endnote ²¹
870.3700	Reproduction/Developmental Toxicity Screening Test	00141201 00145997 00154482 45352301		OLD OLD OLD OLD	See endnote ²²
870.3800	2-Generation Reproduction: Rat	00157225		OLD	See endnote ²³
870.6300	Developmental Neurotoxicity Study	46750501	FMC Corporation	PER	See endnote ²⁴
870.5100	Bacterial Reverse Mutation Test	00132524 40383601		OLD OLD	
870.5300, 870.5375	<i>In vitro</i> Mammalian Cell Assay	00141195		OLD	

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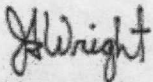
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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.5385, 870.5395, 870.5450; 870.5550	<i>In vivo</i> Cytogenetics and Other Effects	00138109 00138111 00141194		OLD OLD OLD	
870.7485	Metabolism and Pharmacokinetics	00163067 00163069 00163070 00163071 40415102		OLD OLD OLD OLD OLD	See endnote ²⁵
870.7200	Companion Animal Safety				Not required
870.7600	Dermal Penetration	00163072 41284202 41917502 41917503		OLD OLD OLD OLD	See endnote ²⁶
870.7800	Immunotoxicity	49108801	Bifenthrin Task Force	OWN	
875.1100	Dermal Exposure – Outdoor		Agricultural Handlers Exposure TF	OWN	See endnote ²⁷
875.1200	Dermal Exposure - Indoor				Not required
875.1300	Inhalation Exposure – Outdoor		Agricultural Handlers Exposure TF	OWN	See endnote ²⁷
875.1400	Inhalation Exposure - Indoor				Not required
875.1500	Biological Monitoring		Agricultural Handlers Exposure TF	OWN	See endnote ²⁷
875.1600	Data Reporting and Calculations		Agricultural Handlers Exposure TF	OWN	See endnote ²⁷

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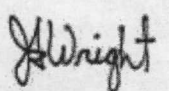
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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
875.1700	Product Use Information				Waived
875.2100	Dislodgeable Foliar Residue and Turf Transferable Residues	44955201		OLD	See endnote ²⁸
875.2200	Soil Residue Dissipation		Agricultural Reentry TF Outdoor Residential Exposure TF	PER PER	See endnote ²⁹
875.2400	Dermal Exposure		Agricultural Reentry TF Outdoor Residential Exposure TF	PER PER	See endnote ²⁹
875.2500	Inhalation Exposure		Agricultural Reentry TF Outdoor Residential Exposure TF	PER PER	See endnote ²⁹
875.2600	Biological Monitoring		Agricultural Reentry TF Outdoor Residential Exposure TF	PER PER	See endnote ²⁹
875.2700	Product Use Information		Agricultural Reentry TF Outdoor Residential Exposure TF	PER PER	See endnote ²⁹
875.2800	Descriptions of Human Activity		Agricultural Reentry TF Outdoor Residential Exposure TF	PER PER	See endnote ²⁹
875.2900	Data Reporting and Calculations		Agricultural Reentry TF Outdoor Residential Exposure TF	PER PER	See endnote ²⁹
875.3000	Nondietary Ingestion Exposure		Agricultural Reentry TF Outdoor Residential Exposure TF	PER PER	See endnote ²⁹

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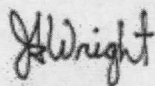
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Date December 3, 2018	EPA Reg No./File Symbol 2749-560	Page 12 of 28
Applicant's/Registrant's Name & Address Aceto Agricultural Chemicals Corp. 4 Tri Harbor Court Port Washington, NY 11050	Product Bifenthrin Technical MUP	

Ingredient: Bifenthrin (CAS No. 82657-04-3)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
201-1	Droplet Size Spectrum		Spray Drift TF	OWN	See endnote ³⁰
202-1	Droplet Size Spectrum		Spray Drift TF	OWN	See endnote ³⁰
850.4100	Tier 1: Seedling Emergence	49138401	Bifenthrin Task Force	OWN	
850.4150	Tier 1: Vegetative Vigor	49138402	Bifenthrin Task Force	OWN	
850.4400, 850.4500	Tier 1: Aquatic Plant Growth	49060101	Bifenthrin Task Force	OWN	
		49098201	Bifenthrin Task Force	OWN	
		49098202	Bifenthrin Task Force	OWN	
		49116101	Bifenthrin Task Force	OWN	
		49134901	Bifenthrin Task Force	OWN	
850.4100	Tier 2: Seedling Emergence	49138401	Bifenthrin Task Force	OWN	
850.4150	Tier 2: Vegetative Vigor	49138402	Bifenthrin Task Force	OWN	
850.4400, 850.4500	Tier 2: Aquatic Plant Growth	49060101	Bifenthrin Task Force	OWN	
		49098201	Bifenthrin Task Force	OWN	
		49098202	Bifenthrin Task Force	OWN	
		49116101	Bifenthrin Task Force	OWN	
		49134901	Bifenthrin Task Force	OWN	
850.4300	Terrestrial Field				Not required
850.4450	Aquatic Field				Not required
850.4025	Target Area Phytotoxicity				Not required

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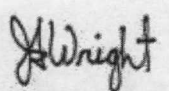
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Applicant's/Registrant's Name & Address <div style="text-align: center;">Aceto Agricultural Chemicals Corp. 4 Tri Harbor Court Port Washington, NY 11050</div>			Product <div style="text-align: center;">Bifenthrin Technical MUP</div>		
Ingredient: Bifenthrin (CAS No. 82657-04-3)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
890.1100	Amphibian Metamorphosis (Rat)	48675901	Bifenthrin Task Force	OWN	See endnote ³¹
890.1150	Androgen Receptor Binding (Rat Prostate)	48615001	Bifenthrin Task Force	OWN	See endnote ³²
890.1200	Aromatase (Human Recombinant)	48615002	Bifenthrin Task Force	OWN	See endnote ³³
890.1250	Estrogen Receptor Binding	48615003	Bifenthrin Task Force	OWN	See endnote ³⁴
		48843501	Bifenthrin Task Force	OWN	
890.1300	Estrogen Receptor Transcriptional Activation Assay	48615004	Bifenthrin Task Force	OWN	See endnote ³⁵
890.1350	Fish Short-Term Reproduction	48675902	Bifenthrin Task Force	OWN	See endnote ³⁶
890.1400	Hershberger (Rat)	48615005	Bifenthrin Task Force	OWN	See endnote ³⁷
890.1450	Female Pubertal (Rat)	48669401	Bifenthrin Task Force	OWN	See endnote ³⁸
890.1500	Male Pubertal (Rat)	48669401	Bifenthrin Task Force	OWN	See endnote ³⁹
890.1550	Steroidogenesis	48615006	Bifenthrin Task Force	OWN	See endnote ⁴⁰
890.1600	Uterotrophic (Rat)	48615007	Bifenthrin Task Force	OWN	See endnote ⁴¹
835.2120	Hydrolysis	00132539		OLD	See endnote ⁴²
		49138403	Bifenthrin Task Force	OWN	
835.2240	Photodegradation in Water	00163084		OLD	See endnote ⁴³
		48882501	FMC Corporation	PER	
835.2410	Photodegradation in Soil	00163085		OLD	See endnote ⁴⁴
835.2370	Photodegradation in Air				Not required

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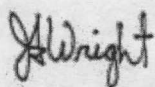
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Ingredient: Bifenthrin (CAS No. 82657-04-3)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
835.4100	Aerobic Soil Metabolism	AC073174	FMC Corporation	OLD	See endnote ⁴⁵
		AC073225		OLD	
		AC141502		OLD	
		AC251278		OLD	
		AC254401		OLD	
		AC254411		OLD	
		AC264642		OLD	
		AC532540		OLD	
		00132540		OLD	
		00141202		OLD	
		00152266		OLD	
		48882502		PER	
835.4200	Anaerobic Soil Metabolism	00163088	FMC Corporation	OLD	See endnote ⁴⁶
		48882503		PER	
835.4300	Aerobic Aquatic Metabolism	48882504	FMC Corporation	PER	
835.4400	Anaerobic Aquatic Metabolism	49364001	Bifenthrin Task Force	OWN	
835.1230	Leaching/Adsorption/Desorption	00141203	Bifenthrin Task Force	OLD	See endnote ⁴⁷
		(AC 254401)			
		00132541		OLD	
		(AC 251728)			
		49175401		OWN	

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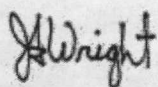
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Aceto Agricultural Chemicals Corp. 4 Tri Harbor Court Port Washington, NY 11050		Bifenthrin Technical MUP			
Ingredient: Bifenthrin (CAS No. 82657-04-3)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
835.1410	Volatility – Laboratory	41220601		OLD	See endnote ⁴⁸
835.8100	Volatility – Field				Not required
835.6100	Soil Field Dissipation Study	00163091 (AC 264642) 41673101 41673102 41673103 42339201 42339203		OLD OLD OLD OLD OLD OLD	See endnote ⁴⁹
835.6200	Aquatic Sediment Field Dissipation Study	40981803 40981805 40981808 40981812 40981814 40981815 40981816 40981817 40981818 40981819		OLD OLD OLD OLD OLD OLD OLD OLD OLD OLD	See endnote ⁵⁰
835.6300	Forest Field Dissipation Study				Not required
835.6400	Combination and Tank Mixes				Not required

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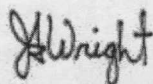
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Bifenthrin Technical MUP

Ingredient: Bifenthrin (CAS No. 82657-04-3)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
835.7100	Ground Water Monitoring				Not required
850.6100	Environmental Chemistry Methods	42339202 49024201 49168201	Bifenthrin Task Force Bifenthrin Task Force	OLD OWN OWN	
SS-1065	POTW Treatability Study				Not required ⁵¹
SS-1099	Leachability from Treated Wood				Not required ⁵²
860.1300	Nature of the Residue: Plants	00163075 40257901 40257902 45794201		OLD OLD OLD OLD	
860.1300	Nature of the Residue: Livestock	00163076 40384402 40384403 40384404 40384405		OLD OLD OLD OLD OLD	
860.1850	Confined Rotational Crops	00163093 42039601		OLD OLD	

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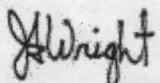
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Ingredient: Bifenthrin (CAS No. 82657-04-3)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1340	Residue Analytical Methods	00163078		OLD	See endnote ⁵³
		40257903		OLD	
		40257905		OLD	
		40384407		OLD	
		40384409		OLD	
		40384411		OLD	
		41492608		OLD	
		41858110		OLD	
		42357104		OLD	
		42357105		OLD	
		42733401		OLD	
		42927802		OLD	
		43641801		OLD	
		44165201		OLD	
		44455501		OLD	
		44455502		OLD	
		45350910		OLD	
		45377301		OLD	
860.1360	Multiresidue Method	40257907		OLD	See endnote ⁵⁴
		42357101		OLD	

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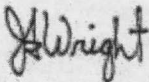
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Ingredient: Bifenthrin (CAS No. 82657-04-3)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1380	Storage Stability	00163080		OLD	
		00163081		OLD	
		41858109		OLD	
		41858111		OLD	
		41858112		OLD	
		41894601		OLD	
		42357102		OLD	
		45350911		OLD	
860.1500	Magnitude of the Residue in Plants: artichokes	43844201	Bifenthrin Task Force	OLD	
		49180801		OWN	
860.1500	Magnitude of the Residue in Plants: beets, garden				See root and tuber vegetables
860.1500	Magnitude of the Residue in Plants: brassica vegetables (5A and 5B)	44756301		OLD	
		44756302		OLD	
		44756303		OLD	
		45660301		OLD	
860.1500	Magnitude of the Residue in Plants: caneberries	44875101	Bifenthrin Task Force	OLD	
		49314301		OWN	
860.1500	Magnitude of the Residue in Plants: canola	44774301		OLD	
		44774302		OLD	
860.1500	Magnitude of the Residue in Plants: cilantro	46279701	IR-4	PL	

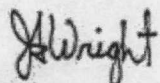
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Ingredient: Bifenthrin (CAS No. 82657-04-3)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1500	Magnitude of the Residue in Plants: citrus	45350902		OLD	
		45350903		OLD	
		45350904		OLD	
		45350905		OLD	
		45350906		OLD	
		45350907		OLD	
		45350908		OLD	
		45350909		OLD	
860.1500	Magnitude of the Residue in Plants: coriander				See cilantor
860.1500	Magnitude of the Residue in Plants: corn	40257908		OLD	See endnote ⁵⁵
		41858103		OLD	
		41858108		OLD	
		41894602		OLD	
		41804603		OLD	
		44620602		OLD	
		44805701		OLD	
860.1500	Magnitude of the Residue in Plants: cotton	00163079	Bifenthrin Task Force	OLD	
		40981810		OLD	
		49241401		OWN	
860.1500	Magnitude of the Residue in Plants: crambe				See canola

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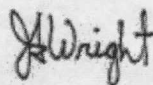
Product

Bifenthrin Technical MUP

Ingredient: Bifenthrin (CAS No. 82657-04-3)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1500	Magnitude of the Residue in Plants: cucurbits	44056501		OLD	
		44056502		OLD	
		44056503		OLD	
860.1500	Magnitude of the Residue in Plants: fruiting vegetables	44616901		OLD	
		44870501		OLD	
		44870502		OLD	
		45440401		OLD	
		45605601		OLD	
860.1500	Magnitude of the Residue in Plants: grapes	44859801	Bifenthrin Task Force	OLD	
		45383101		OLD	
		45383102		OLD	
		49180802		OWN	
860.1500	Magnitude of the Residue in Plants: herbs (19A)	45104101	Bifenthrin Task Force	OLD	
		45104102		OLD	
		49341301		OWN	
860.1500	Magnitude of the Residue in Plants: hops	41658501	Bifenthrin Task Force	OLD	
		41658601		OLD	
		49167001		OWN	

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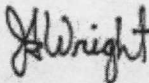
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Aceto Agricultural Chemicals Corp. 4 Tri Harbor Court Port Washington, NY 11050		Bifenthrin Technical MUP			
Ingredient: Bifenthrin (CAS No. 82657-04-3)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1500	Magnitude of the Residue in Plants: legume vegetables	44581101 44581102 44746801 45567404 45624701 46098701	IR-4	OLD OLD OLD OLD OLD PL	
860.1500	Magnitude of the Residue in Plants: lettuce	44869601 47144503	IR-4	OLD PL	
860.1500	Magnitude of the Residue in Plants: mayhaw	46960801	IR-4	PL	
860.1500	Magnitude of the Residue in Plants: okra				See fruiting vegetables
860.1500	Magnitude of the Residue in Plants: peanut	46960401 46960402 46960403 46960404	IR-4 IR-4 IR-4 IR-4	PL PL PL PL	
860.1500	Magnitude of the Residue in Plants: pear	00151440 41492606 45377302 45377303 45377304		OLD OLD OLD OLD OLD	
860.1500	Magnitude of the Residue in Plants: pistachio	42441302		OLD	

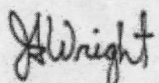
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Ingredient: Bifenthrin (CAS No. 82657-04-3)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1500	Magnitude of the Residue in Plants: radish				See root and tuber vegetables
860.1500	Magnitude of the Residue in Plants: rapeseed				See canola
860.1500	Magnitude of the Residue in Plants: root and tuber vegetables	45794202 46961101 46961102 46961103	IR-4 IR-4 IR-4	OLD PL PL PL	
860.1500	Magnitude of the Residue in Plants: leaves of root and tuber vegetables	45794202 46961101 46961102 46961103	IR-4 IR-4 IR-4	OLD PL PL PL	
860.1500	Magnitude of the Residue in Plants: soybean	46098701	IR-4	PL	
860.1500	Magnitude of the Residue in Plants: spinach	45579801 45579802		OLD OLD	
860.1500	Magnitude of the Residue in Plants: strawberry	00145881 41492607 42515602		OLD OLD OLD	
860.1500	Magnitude of the Residue in Plants: tobacco	46045001	FMC Corporation	PER	

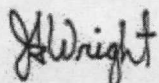
Signature 	Name and Title John F. Wright, Authorized Representative	Date 2/13/19
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M Street, S.W.
WASHINGTON, D.C. 20460

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DATA MATRIX

Date December 3, 2018		EPA Reg No./File Symbol 2749-560		Page 23 of 28	
Applicant's/Registrant's Name & Address Aceto Agricultural Chemicals Corp. 4 Tri Harbor Court Port Washington, NY 11050		Product Bifenthrin Technical MUP			
Ingredient: Bifenthrin (CAS No. 82657-04-3)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1500	Magnitude of the Residue in Plants: tree nuts	00151439 00162835 00162836 41492603 41492604 42441301 42515603 45377305		OLD OLD OLD OLD OLD OLD OLD OLD	
860.1500	Magnitude of the Residue in Plants: tuberous and corn vegetables				See root and tuber vegetables
860.1500	Magnitude of the Residue in Plants: turnip greens				See leaves of root and tuber vegetables
860.1520	Magnitude of the Residue in Processed Food or Feed: canola	44774301 44774302		OLD OLD	
860.1520	Magnitude of the Residue in Processed Food or Feed: citrus	45350902 45350903 45350904 45350905 45350907 45350909		OLD OLD OLD OLD OLD OLD	

Signature 	Name and Title John F. Wright, Authorized Representative	Date 2/13/19
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DATA MATRIX

Date December 3, 2018		EPA Reg No./File Symbol 2749-560		Page 24 of 28	
Applicant's/Registrant's Name & Address <div style="text-align: right;">Aceto Agricultural Chemicals Corp. 4 Tri Harbor Court Port Washington, NY 11050</div>		Product <div style="text-align: right;">Bifenthrin Technical MUP</div>			
Ingredient: Bifenthrin (CAS No. 82657-04-3)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1520	Magnitude of the Residue in Processed Food or Feed: corn	40257908		OLD	See endnote ⁵⁶
		41858103			
		41858108			
		41894602			
		41804603			
		44620602			
		44805701			
860.1520	Magnitude of the Residue in Processed Food or Feed: cotton	00163079	Bifenthrin Task Force	OLD	
		40981810			
		49241401			
860.1520	Magnitude of the Residue in Processed Food or Feed: fruiting vegetables	45440401		OLD	
		45605601			
860.1520	Magnitude of the Residue in Processed Food or Feed: raisins	44859801	Bifenthrin Task Force	OLD	
		45383101			
		45383102			
		49180802			
860.1520	Magnitude of the Residue in Processed Food or Feed: peanuts	46960401	IR-4	PL	
		46960402			
		46960403			
		46960404			

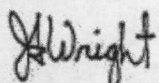
Signature <div style="text-align: center; font-family: cursive; font-size: 1.5em;">J. Wright</div>	Name and Title John F. Wright, Authorized Representative	Date 2/13/19
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DATA MATRIX

Date December 3, 2018		EPA Reg No./File Symbol 2749-560		Page 25 of 28	
Applicant's/Registrant's Name & Address Aceto Agricultural Chemicals Corp. 4 Tri Harbor Court Port Washington, NY 11050		Product Bifenthrin Technical MUP			
Ingredient: Bifenthrin (CAS No. 82657-04-3)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1520	Magnitude of the Residue in Processed Food or Feed: root and tuber vegetables	45794202		OLD	
860.1520	Magnitude of the Residue in Processed Food or Feed: soybeans	46098701	IR-4	PL	
860.1480	Magnitude of the Residue in Meat, Milk, Poultry, and Eggs	40257910 40257911 40384401 40384406 40384408 40384410		OLD OLD OLD OLD OLD OLD	
860.1400	Nature and Magnitude of the Residue in Potable Water				Not required ⁵⁷
860.1400	Magnitude of the Residue in Fish				Not required
860.1400	Magnitude of the Residue in Plants Resulting from the Use of Irrigation Water				Not required
860.1460	Magnitude of the Residue in Food Handling Establishments				Not required
860.1900	Field Rotational Crops	45306501		OLD	

Signature 	Name and Title John F. Wright, Authorized Representative	Date 2/13/19
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Endnotes for Data Matrix for Bifenthrin Technical

- ¹ **850.2100** – MRID number 00132532 and 00132534 are acceptable and partially satisfy the data requirement as per the June 9, 2010 EFED Registration Review Problem Formulation for Bifenthrin (DP D370920) (Problem Formulation). As per the Jan. 12, 2012 Generic Data Call-In for Bifenthrin (GDCI-128825-902) (2012 GDCI), additional data were required on a passerine species. MRID 49163801 was submitted to satisfy this data gap.
- ² **850.2200** – The studies cited are acceptable and satisfy the data requirement as per the Problem Formulation.
- ³ **850.2300** – The studies cited are acceptable and satisfy the data requirement as per the Problem Formulation. It appears the incorrect accession number was referenced in the Problem Formulation for the mallard duck study. The correct MRID and accession number have been cited here.
- ⁴ **850.1075** – The studies cited are acceptable or supplemental but satisfy the data requirement as per the Problem Formulation and the Sept. 30, 2016 Preliminary Comparative Environmental Fate and Ecological Risk Assessment for the Registration Review of Eight Synthetic Pyrethroids and the Pyrethrins (D425791, D429461, D433338, D433339, D435888) (EFED Risk Assessment).
- ⁵ **850.1010** – MRID 41156501 was identified in the Problem Formulation to be acceptable and satisfy the data requirement. However, this MRID corresponds to a chronic invertebrate life cycle study; therefore, MRID 00132537, an acute study is also cited, which was identified as acceptable in the EFED Risk Assessment.
- ⁶ **850.1025, 850.1035, 850.1045, 850.1055, 850.1075** – The studies cited are acceptable or supplemental but satisfy the data requirement as per the EFED Risk Assessment.
- ⁷ **850.1300** – The study cited is acceptable and satisfies the data requirement as per the EFED Risk Assessment.
- ⁸ **850.1350** – The study cited is supplemental as per the EFED Risk Assessment however no additional data are required.
- ⁹ **850.1400, 850.1500** – The Problem Formulation identified MRID 40791301 as invalid and required a new Early Life Stage study, stating that a saltwater study could satisfy both freshwater and saltwater requirements (as well as any life cycle requirements). The study cited was considered acceptable and satisfies the data requirement as per the EFED Risk Assessment.
- ¹⁰ **850.1710, 850.1730, 850.1850** – The studies cited are supplemental as per the EFED Risk Assessment however no additional data have been required.
- ¹¹ **SS-1066** – The study cited is acceptable and satisfies the data requirement as per the EFED Risk Assessment.
- ¹² **SS-1069** – The study cited is acceptable and satisfies the data requirement as per the EFED Risk Assessment.
- ¹³ **850.3020** – The study cited is acceptable and satisfies the data requirement as per the EFED Risk Assessment and the Problem Formulation.
- ¹⁴ **850.3030** – The study cited is acceptable and satisfies the data requirement as per the EFED Risk Assessment and the Problem Formulation.
- ¹⁵ **850.3040** – These data are not required as per the Problem Formulation.
- ¹⁶ **870.6200** – The study cited is listed in the EPA HED Chapter for the Bifenthrin TRED Sept. 4, 2002 (D283796) as satisfying the data requirement (Sept. 4, 2002 HED memo). This is also reiterated in May 17, 2011 Toxicological Data Needs Update: Bifenthrin Human Health Assessment Scoping Document in Support of Registration Review (DP D389066) (Scoping Document).
- ¹⁷ **870.3100** – The study cited is acceptable and satisfies the data requirement as per the Scoping Document.
- ¹⁸ **870.3150** – The study cited is acceptable and satisfies the data requirement as per the Scoping Document.
- ¹⁹ **870.3200** – The studies cited are acceptable and satisfy the data requirement as per the Scoping Document.
- ²⁰ **870.4100** – The study cited is acceptable and satisfies the data requirement as per the Scoping Document.
- ²¹ **870.4200** – The studies cited are acceptable and satisfy the data requirement as per the Scoping Document.
- ²² **870.3700** – The studies cited are acceptable and satisfy the data requirement as per the Scoping Document.
- ²³ **870.3800** – The study cited is acceptable and satisfies the data requirement as per the Scoping Document.
- ²⁴ **870.6300** – The study cited is listed in an April 2, 2008 HED memo (D379758) as being acceptable and fully satisfying the data requirement.

- ²⁵ **870.7485** – The studies cited are listed in the Sept. 4, 2002 HED memo as being acceptable and satisfying the data requirement.
- ²⁶ **870.7600** – The studies cited are listed in the Sept. 4, 2002 HED memo as being acceptable and satisfying the data requirement when all taken in conjunction with one another.
- ²⁷ **875.1100, 875.1300, 875.1400, 875.1500, 875.1600, 875.1600** – Aceto Agricultural Chemicals Corp. is a member in good standing with the Agricultural Handlers Exposure Task Force.
- ²⁸ **875.2100** – The study cited is listed in the Sept. 4, 2002 HED memo as being acceptable and satisfying the data requirement.
- ²⁹ **875.2200, 875.2300, 875.2400, 875.2500, 875.2600, 875.2700, 875.2800, 875.2900, 875.3000** – Aceto Agricultural Chemicals Corp. has permission to cite data submitted by the Agricultural Reentry Task Force and the Outdoor Residential Exposure Task Force.
- ³⁰ **201-1, 202-1** – Aceto Agricultural Chemicals Corp. is a member in good standing with the Spray Drift Task Force.
- ³¹ **890.1100** – The study cited is acceptable and satisfies the data requirement as per the June 29, 2015 Bifenthrin: Data Evaluation Records (DERs) for EDSP Assays (EDSP DERs).
- ³² **890.1150** – The study cited is acceptable and satisfies the data requirement as per the EDSP DERs.
- ³³ **890.1200** – The study cited is acceptable and satisfies the data requirement as per the EDSP DERs.
- ³⁴ **890.1250** – The studies cited are acceptable and satisfy the data requirement as per the EDSP DERs.
- ³⁵ **890.1300** – The study cited is acceptable and satisfies the data requirement as per the EDSP DERs.
- ³⁶ **890.1350** – The study cited is acceptable and satisfies the data requirement as per the EDSP DERs.
- ³⁷ **890.1400** – The study cited is acceptable and satisfies the data requirement as per the EDSP DERs.
- ³⁸ **890.1450** – The study cited is acceptable and satisfies the data requirement as per the EDSP DERs.
- ³⁹ **890.1500** – The study cited is acceptable and satisfies the data requirement as per the EDSP DERs.
- ⁴⁰ **890.1550** – The study cited is acceptable and satisfies the data requirement as per the EDSP DERs.
- ⁴¹ **890.1600** – The study cited is acceptable and satisfies the data requirement as per the EDSP DERs.
- ⁴² **835.2120** – The studies cited are acceptable and satisfy the data requirement as per the EFED Risk Assessment.
- ⁴³ **835.2240** – The studies cited are supplemental but satisfy the data requirement as per the EFED Risk Assessment.
- ⁴⁴ **835.2410** – The study cited is acceptable and satisfies the data requirement as per the EFED Risk Assessment.
- ⁴⁵ **835.4100** – The studies cited are acceptable or supplemental but satisfy the data requirement as per the EFED Risk Assessment.
- ⁴⁶ **835.4200** – The studies cited are acceptable or supplemental but satisfy the data requirement as per the EFED Risk Assessment.
- ⁴⁷ **835.1230** – The studies cited are supplemental but satisfy the data requirement as per the EFED Risk Assessment.
- ⁴⁸ **835.1410** – The study cited is supplemental but satisfies the data requirement as per the EFED Risk Assessment.
- ⁴⁹ **835.6200** – The studies cited are acceptable and satisfy the data requirement as per the EFED Risk Assessment. Note: MRID 42334167 is not cited as it does not appear to correspond to a citation in NPIRS and MRID 41671302 has been revised to the correct MRID citation of 41673102.
- ⁵⁰ **835.6200** – The studies cited are supplemental but satisfy the data requirement as per the EFED Risk Assessment.
- ⁵¹ **SS-1065** – EPA required the submission of these data to address EPA's "down the drain" module. However, Aceto's product is not registered for indoor residential uses (other bifenthrin products are registered for indoor uses). Therefore, these data are not required for Aceto's registration.
- ⁵² **SS-1099** – EPA required the submission of these data for wood treatment uses. However, Aceto's product is not registered for wood treatment uses (other bifenthrin products are registered for indoor uses). Therefore, these data are not required for Aceto's registration.
- ⁵³ **860.1340** – The data cited are considered acceptable and no additional data are required as per an EPA memo dated Oct. 17, 2002 in support of the TRED for bifenthrin (D286230). 45377301 and 45350910 were cited to support use on citrus and tree nuts, respectively.

⁵⁴ **860.1360** – The data cited are considered acceptable and no additional data are required as per an EPA memo dated Oct. 17, 2002 in support of the TRED for bifenthrin (D286230).

⁵⁵ **860.1500** – The data cited are considered acceptable and no additional data are required as per an EPA memo dated Oct. 17, 2002 in support of the TRED for bifenthrin (D286230).

⁵⁶ **860.1520** – The data cited are considered acceptable and no additional data are required as per an EPA memo dated Oct. 17, 2002 in support of the TRED for bifenthrin (D286230).

⁵⁷ **860.1400** – These data are not required as per an EPA memo dated Oct. 17, 2002.

⁵⁸ **830.7050** – The data shows up as a data GAP in the Bifenthrin Final Work Plan, Registration Review, December 2010, EPA-HQ-OPP-2010-0384. It will be generated shortly.